

Human CRP ELISA Kit | CRP elisa kit

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CATALOG #
AAA76911

REACTIVITY
Human

PRODUCT SYNONYMS

CRP; Human CRP ELISA Kit; Human CRP; CRP elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Samples	Immunoperoxidase Assay for Determination of C-Reactive Protein in Human Samples
Assay Type	Sandwich
Intended Uses	The CRP test kit is a highly sensitive two-site enzyme linked immunoassay (ELISA) for measuring CRP in Human biological samples.
Preparation and Storage	Store at 4 degree C.

ADDITIONAL INFORMATION

Related Product Information for CRP elisa kit	Principle of the Assay: The principle of the double antibody sandwich ELISA is represented in Figure 1. In this assay the CRP present in samples reacts with the anti-CRP antibodies which have been adsorbed to the surface of polystyrene microtitre wells. After the removal of unbound proteins by washing, anti-CRP antibodies conjugated with horseradish peroxidase (HRP), are added. These enzyme-labeled antibodies form complexes with the previously bound CRP. Following another washing step, the enzyme bound to the immunosorbent is assayed by the addition of a chromogenic substrate, 3,3',5,5'-tetramethylbenzidine (TMB). The quantity of bound enzyme varies directly with the concentration of CRP in the sample tested; thus, the absorbance, at 450 nm, is a measure of the concentration of CRP in the test sample. The quantity of CRP in the test sample can be interpolated from the standard curve constructed from the standards, and corrected for sample dilution. Background: Acute phase proteins are plasma proteins which increase in concentration following infection, inflammation or trauma. The first acute phase protein to be recognized was discovered in humans by Tillet and Frances in 19301. This C-reactive protein (CRP) is so named because it is able to effect precipitation of somatic C-polysaccharide of Streptococcus pneumonia. CRP is an alpha globulin with a mass of 110,000 to 140,000 daltons, and composed of five identical subunits, which are non-covalently assembled as a cyclic pentamer. It is synthesized in the liver and, in humans, is normally present as a trace constituent of serum at levels less than 0.3 mg/dL. The levels in serum rise quickly following acute tissue damage and also falls very rapidly once the stimulus is removed. It has been proposed that the function of CRP is to aid in complement activation, influence phagocytic cell function, and augment cell mediated cytotoxicity. Investigations over the past few years have shown that quantification of these in plasma or serum can provide valuable information in the detection, prognosis, and monitoring of disease not only in humans, but in companion animals and farm herds as well2.
Product Categories/Family for CRP elisa kit	ELISA Kit

NCBI AND UNIPROT INFORMATION

NCBI GI #	17975775
NCBI GeneID	1401
UniProt Accession #	P02741 ; Q08AK3 ; Q8WW75 ; A8K078 ; D3DVD9 ; D3DVE0 ; Q5VVP7

Molecular Weight	25,039 Da
NCBI Official Full Name	CRP
NCBI Official Synonym Full Names	C-reactive protein, pentraxin-related
NCBI Official Symbol	CRP
NCBI Official Synonym Symbols	PTX1; MGC88244; MGC149895
NCBI Protein Information	C-reactive protein; pentraxin 1; OTTHUMP00000033307
UniProt Protein Name	C-reactive protein
UniProt Gene Name	CRP
UniProt Synonym Gene Names	PTX1
UniProt Entry Name	CRP_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/human-elisa-kits/crp/76911>